

WESTON SOLUTIONS, INC., REGION I START IV SITE HEALTH AND SAFETY PLAN (HASP)**Prepared by:** Eric D. Ackerman**W.O. No.:** 30100.011.001.0077.00**Project Identification:** Contract No. EP-S3-15-01 TDD NO: TO1-01-15-10-0003 EPA Contact: Allen Jarrell**Site Name:** Anglo Enterprises Company Site **Site Address:** 35 Pearl Street, Webster, Massachusetts**Site History:** The mill is owned by 35 Pearl St. LLC, and is located at 35 Pearl Street, Webster, Worcester County, Massachusetts.

The mill building was destroyed by a catastrophic fire on 25 June 2015. The former mill complex is situated on approximately 9 acres located in a congested residential/commercial/industrial area of Webster, MA. The general public is in close proximity to this area with an apartment complex, basketball courts and a toddler playground areas situated directly across the street from the site. Immediately after the fire, the Central Region Massachusetts Department of Environmental Protection (MassDEP) asbestos program was made aware through information obtained from a Division of Local Services (DLS)-licensed asbestos contractor and also a DLS-licensed asbestos inspector retained by the property owner that exterior and interior asbestos-containing material (ACM) was present throughout the buildings. The DLS-licensed asbestos inspector provided MassDEP's asbestos program with the asbestos sampling results and a partial asbestos survey of the buildings.

The MassDEP asbestos program conducted an inspection of the property accompanied by the aforementioned DLS-licensed asbestos contractor and observed significant quantities of friable and non-friable ACM co-mingled throughout the fire/demolition debris at the site. MassDEP considers all of the fire/demolition debris to be ACM/asbestos-contaminated.

On 10 November 2015, EPA On-Scene Coordinator Allen Jarrell and START member Eric Ackerman mobilized to the site, conducted a perimeter site reconnaissance, performed air monitoring using a photoionization detector and gamma radiation detector and photodocumented conditions. There were no elevated readings above background and it was noted that there were large piles of debris strewn about the site and twisted steel remnants from the fire. EPA and START noted areas that contained debris piles that were moved prior to MassDEP involvement and transformers that were noted to be leaking. EPA estimated that 40 asbestos-containing material (ACM) samples, up to 10 lead-containing material samples, and up to 5 polychlorinated biphenyl (PCB) soil samples would be collected from site.

Scope of Work: Task 01: Mobilize to site and perform a perimeter site reconnaissance to determine the number and type of samples that will be collected to sufficiently characterize the site.

Task 02: Mobilize to site and conduct soil and bulk asbestos sampling activities.

Directions to Site: Proceed from Riverside Drive to River Road, head east on River Road to Route 93 South. Continue on Route 93 south and exit onto Route 495 south. Continue on Route 495 south to Interstate 290 west and take Exit 3, Cudworth Road, to Route 12 (Main Street) south to 35 Pearl Street, Webster, Massachusetts.

Review and Approval Documentation:

Reviewed by:

Site Leader/Environmental Compliance Officer Eric D. AckermanDate: 11/30/15

Approved by: _____

Date: _____

☒ START HSO

Verbal Approval (Emergency Response/Modifications)

Approval by: _____

Date: _____

Vehicle Use Assessment and Selection:

Driving is one of the most hazardous and frequent activities for Weston Employees. The most appropriate type of vehicle(s) authorized for use on this project is/are:

- ☐ Ford Expedition
☐ Ford F-250 Super Crew Cab Pick-Up Truck
☐ Ford F-350 Geoprobe (Extended Cab)
☐ Ford E-250 Econoline Van
☐ Freightliner Box Truck
☒ Other/Rental (List): Sedan

The following Project Team Member's qualifications and experience in driving these types of vehicles was evaluated and found to be acceptable (Indicate vehicle type(s) next to employee name). All Region I START III members are experienced and qualified to drive the Ford Expedition and Ford F-250 Super Crew Cab Pick-Up Truck.

1. Eric Ackerman

2.

Commute To Site Considerations: The site is accessed primarily via a major highway for the majority of the commute. After exiting the highway, local town/rural roads are used that have considerable traffic. In addition to vehicles, pedestrians and animals may be present along the route.

On-Site: The site is accessed by a chain-link fence and gate and care should be noted due to the metal debris (nails/shards) that may remain in the parking area on site.

The project site was evaluated and a Traffic Control Plan ☐ Is Required ☒ Is Not Required.

If Required, the Traffic control Plan can be found in Appendix E of this HASP

Hazard Assessment and Equipment Selection

In accordance with WESTON's Personal Protective Equipment Program and 29 CFR 1910.132, at the site prior to personnel beginning work, the field safety Officer (FSO) and/or the Site Leader have evaluated conditions and verified that the personal protective equipment selection outlined within this HASP is appropriate for the hazards known or expected to exist - Refer to Safety Officer Manual Section 2, Personal Protection Program, for guidance. For Region 1 START III projects, the site Leader is also the Environmental Compliance Officer unless otherwise noted.

☐ FSO ☐ Site Manager Signature: _____ Date: _____

☐ Dangerous Goods Shipping Coordinator (If Required):

Project start date: 11/5/2015

Anticipated Site Visit date: 11/10/2015

End date: 12/30/2015

Plan expiration date: 1/1/2016

Amendments:

Figure 1 - Site map/work zones

SITE SPECIFIC HAZARD EVALUATION

☒ **CHEMICAL HAZARDS** ☒ **BIOLOGICAL HAZARDS** ☒ **PHYSICAL HAZARDS** ☒ **RADIATION HAZARDS**

HEALTH AND SAFETY EVALUATION - CHEMICAL HAZARDS

Chemical Contaminants of Concern: data sheets (MSDS, NIOSH pocket guide, etc.) can be found in Appendix A of this HASP.

Chemical Name/Matrix	Concentration	Chemical Name	Concentration
Asbestos	Unknown		

Chemicals taken onto Site by WESTON or subcontractors - Identify hazardous materials used on-site and attach Material Safety Data Sheets (MSDSs) for all reagent type chemicals, solutions, or other identified materials that in normal use in performing tasks related to this project could produce hazardous substances. Ensure that all subcontractors and other parties working nearby are informed of the presence of these chemicals and the location of the MSDSs. Obtain from subcontractors and other parties, lists of the hazardous materials they use or have on-site and identify location of the MSDSs here. List chemicals and quantities below and locate MSDSs in Attachment B of this HASP.

Chemical Name	Quantity	Chemical Name	Quantity
Pentane: calibration grade	< 19 L	ABC Fire Extinguisher Material	< 20 pounds
Methane: calibration grade	< 100 L	Liqui-Nox	< 1 L
Isobutylene: calibration grade	< 17 L	Compressed Air	< 100 L
Hydrogen: Instrument Fuel	< 4 cu. ft.		

OSHA SITE SPECIFIC HAZARDOUS SUBSTANCES

The following substances may require specific medical, training, or monitoring based upon concentration or evaluation of risk. See the appropriate citation listed under 29 CFR 1910 or 1926 for additional information.

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> 1910.1001 Asbestos | <input type="checkbox"/> 1910.1002 Coal tar pitch volatiles | <input type="checkbox"/> 1910.1003 4-Nitrobiphenyl, etc. |
| <input type="checkbox"/> 1910.1004 alpha-Naphthylamine | <input type="checkbox"/> 1910.1005 [Reserved] | <input type="checkbox"/> 1910.1006 Methyl chloromethyl ether |
| <input type="checkbox"/> 1910.1007 3,3'-Dichlorobenzidine (and salts) | <input type="checkbox"/> 1910.1008 bis-Chloromethyl ether | <input type="checkbox"/> 1910.1009 beta-Naphthylamine |
| <input type="checkbox"/> 1910.1010 Benzidine | <input type="checkbox"/> 1910.1011 4-Aminodiphenyl | <input type="checkbox"/> 1910.1012 Ethyleneimine |
| <input type="checkbox"/> 1910.1013 beta-Propiolactone | <input type="checkbox"/> 1910.1014 2-Acetylaminofluorene | <input type="checkbox"/> 1910.1015 4-Dimethylaminoazobenzene |
| <input type="checkbox"/> 1910.1016 N-Nitrosodimethylamine | <input type="checkbox"/> 1910.1017 Vinyl chloride | <input type="checkbox"/> 1910.1018 Inorganic arsenic |
| <input type="checkbox"/> 1910.1025 Lead (Att. FLD# 46) | <input type="checkbox"/> 1910.1027 Cadmium | <input type="checkbox"/> 1910.1028 Benzene |
| <input type="checkbox"/> 1910.1029 Coke oven emissions | <input type="checkbox"/> 1910.1043 Cotton dust | <input type="checkbox"/> 1910.1044 1,2-Dibromo-3-chloropropane |
| <input type="checkbox"/> 1910.1045 Acrylonitrile | <input type="checkbox"/> 1910.1047 Ethylene oxide | <input type="checkbox"/> 1910.1048 Formaldehyde |
| <input type="checkbox"/> 1910.1050 Methylenedianiline | <input type="checkbox"/> 1910.1051 1,3 Butadiene | <input type="checkbox"/> 1910.1052 Methylene chloride |

IS SAMPLING TO BE CONDUCTED? ☒ YES ☐ NO

IS SAMPLING SUBSURFACE? ☐ YES ☒ NO MA and NH require DIGSAFE notification for all subsurface activities including sediment sampling; CT, ME, RI, and VT require DIGSAFE/CALL-BEFORE-U-DIG (CBUD) notification for subsurface activities using power or mechanized equipment only. Pre-marking is required for CT, MA, ME, VT, and NH.

IS DIGSAFE/CBUD NOTIFICATION REQUIRED? ☐ YES ☒ NO: For VT, NH, MA, ME, AND RI sites, call DIGSAFE at 1-888-344-7233 (1-888-DIG-SAFE), START ID no. 33168. For CT sites, call CBUD at 1-800-922-4455, START ID no. 03733.

DIGSAFE/CBUD VERIFICATION NO: _____ ☐ LOCAL WATER AND SEWER UTILITIES NOTIFIED
(Required whenever DIGSAFE/CBUD is notified)

Utility Contacted/Phone No.	Utility Site?	Present On	Utility Emergency Phone No./Procedure/Notes

MA, ME, AND RI, NH REQUIRE 72-HOUR NOTIFICATION; CT AND VT REQUIRE 48 HOUR NOTIFICATION (BOTH EXCLUDING WEEKENDS AND HOLIDAYS). DIGSAFE NOTIFICATION IS VALID FOR 30 DAYS IN CT, VT, AND NH; FOR 60 DAYS IN ME, AND RI; AND UNLIMITED DURATION FOR MA.

Explosions	Explosion/fire/thermal burns	<input type="checkbox"/>	FLD21 - Explosives
Moving Mechanical Parts	Crushing/pinch points/overhead hazards/electrocution	<input type="checkbox"/>	FLD22 - Earth Moving Equipment/Material Handling Equipment
Moving Mechanical Parts	Overhead hazards/electrocution	<input type="checkbox"/>	FLD23 - Cranes/Rigging/Slings
Working At Elevation	Overhead hazards/falls/electrocution	<input type="checkbox"/>	FLD24 - Aerial Lifts/Man Lifts
Working At Elevation	Overhead hazards/falls/electrocution	<input type="checkbox"/>	FLD25 - Working at Elevation/Fall Protection
Working At Elevation	Overhead hazards/falls/electrocution/slips	<input type="checkbox"/>	FLD26 - Ladders
Working at elevation	Slips/trips/falls/overhead hazards	<input type="checkbox"/>	FLD27 - Scaffolding
Trench Cave-In	Crushing/falling/overhead hazards/suffocation	<input type="checkbox"/>	FLD28 - Excavating/Trenching
Physiochemical	Explosions/fires from oxidizing, flam./corr. material	<input checked="" type="checkbox"/>	FLD30 - Hazardous Materials Use/Storage
Physiochemical	Fire and explosion	<input type="checkbox"/>	FLD31 - Fire Prevention/
Physiochemical	Fire	<input checked="" type="checkbox"/>	FLD32 - Fire Extinguishers Required and Requirements
Structural Integrity	Overhead/electrocution/slips/trips/falls/fire	<input type="checkbox"/>	FLD33 - Demolition
Electrical	Electrocution/shock/thermal burns	<input checked="" type="checkbox"/>	FLD34 - Utilities
Electrical	Electrocution/shock/thermal burns	<input type="checkbox"/>	FLD35 - Electrical Safety
Burns/Fires	Heat stress/fires/burns	<input type="checkbox"/>	FLD36 - Welding/Cutting/Brazing/Radiography
Impact/Thermal	Thermal burns/high pressure impaction/heat stress	<input type="checkbox"/>	FLD37 - Pressure Washers/Sandblasting
Impaction/Electrical	Smashing body parts/pinching/cuts/electrocution	<input type="checkbox"/>	FLD38 - Hand and Power Tools
Poor Visibility	Slips/trips/falls	<input type="checkbox"/>	FLD39 - Illumination
Fire/Explosion	Burns/impaction	<input type="checkbox"/>	FLD40 - Storage Tank Removal/Decommissioning
Communications	Disruption of communications	<input type="checkbox"/>	FLD41 - Hand and Emergency Signals/Radio Communication
Energy/Release	Unexpected release of energy	<input type="checkbox"/>	FLD42 - Lockout/Tag-out
Biological Hazards	Biological Hazards at site	<input checked="" type="checkbox"/>	FLD43 - Biological Hazards FLD 43A - Animals FLD 43B - Stinging and Biting Insects FLD 43C - Molds and Fungi FLD 43D - Hazardous Plants FLD 43E - Etiologic Agents
Biological Hazards/BBP	Biological Hazards/BBP at site/First Aid Providers	<input checked="" type="checkbox"/>	FLD44 - Bloodborne Pathogens Exposure Control Plan – First Aid Providers
Infectious Waste	Infectious Waste at site/BBP/ at site/Infectious Waste	<input type="checkbox"/>	FLD45 – Bloodborne Pathogens Exposure Control Plan – Work With Infectious Waste
Lead Contaminated Sites	Lead poisoning	<input type="checkbox"/>	FLD46 - Control of Exposure to Lead
Puncture/Cuts	Cuts/ dismemberment/gouges	<input type="checkbox"/>	FLD47 - Clearing, Grubbing and Logging Operations
Not Applicable	Not applicable	<input checked="" type="checkbox"/>	FLD48 – Federal, State, Local Regulatory Agency Inspections
Not Applicable	Exposure to hazardous materials/waste	<input type="checkbox"/>	FLD49 – Safe Storage of Samples
Cadmium	Exposure Control	<input type="checkbox"/>	FLD50 – Cadmium Exposure Control Plan
Process Safety Procedure	Safety Procedure	<input type="checkbox"/>	FLD51 – Process Safety Procedure
Asbestos	Asbestos Exposure	<input type="checkbox"/>	FLD52 – Asbestos Exposure Control Plan
Hexavalent Chromium	Exposure Control Plan	<input type="checkbox"/>	FLD53 – Hexavalent Chromium Exposure Control Plan
Benzene	Exposure Control Plan	<input type="checkbox"/>	FLD54 - Benzene Exposure Control Plan
Hydrofluoric Acid	Exposure control Plan	<input type="checkbox"/>	FLD55 – Working with Hydrofluoric Acid
Moving Mechanical Parts	Crushing/pinch points/overhead hazards/electrocution	<input type="checkbox"/>	FLD56 – Environmental Remediation Drilling Safety Guideline - 2005
Vehicles/Driving	Accidents/fatigue/cell phone use	<input checked="" type="checkbox"/>	FLD 57 – Motor Vehicle Safety
Improper Material Handling	Back injury/crushing from load shifts/equipment/tools	<input type="checkbox"/>	FLD 58 – Drum Handling Operations
COC Decontamination	COCs/slip,trip, and falls/waste generation/environmental compliance/PPE	<input type="checkbox"/>	FLD59 - Decontamination
Fatigue From long Hours	Employee Fatigue	<input type="checkbox"/>	FLD60 - Employee Duty Schedule/Basic fatigue Management Plan
Gasoline	Exposure Control Plan	<input type="checkbox"/>	FLD61 - Gasoline Contaminant Exposure

Note there is no FLD01, FLD04, FLD07, FLD15, or FLD29

TASK-BY-TASK RISK ASSESSMENT (Complete One Sheet for Each Task)
TASK DESCRIPTION
Task 01: Mobilize to site and perform a perimeter site reconnaissance to determine the number and type of samples that will be collected to sufficiently characterize the site.
EQUIPMENT REQUIRED/USED (Be specific, e.g., hand tools, heavy equipment, instruments, PPE)
PPE: Modified Level D Air Monitoring: PID, CGI/O ₂ Equipment: fire extinguisher, first aid kit, camera, logbook, Booties, surgical gloves.
POTENTIAL HAZARDS/RISKS
CHEMICAL
<input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? Awareness of potential on-site chemicals and their properties, appropriate use of PPE and air monitoring, attention to surroundings, and use of the "Buddy System" will reduce the risk of exposure.
PHYSICAL
<input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input checked="" type="checkbox"/> M <input type="checkbox"/> L What Justifies Risk Level? Awareness of potential hazards, use of the "Buddy System", and careful observation of surroundings will minimize risks. Proper nutrition and hydration are important factors for maintaining physical strength and mental awareness during field work regardless of the season or site conditions. Considerations include slip/trip/fall, working with hand tools (strains), and working on uneven terrain.
BIOLOGICAL
<input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? Biological hazards common to the New England area may be encountered. Risks will be minimized by awareness, avoidance of potential hazards, and use of appropriate work clothes/PPE.
RADIOLOGICAL
<input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? Site background does not indicate that radiation sources are present. However, the potential for radiation sources will be investigated, and radiation monitoring will be conducted. Proper monitoring and avoidance will minimize the risk of exposure.
LEVELS OF PROTECTION/JUSTIFICATION
Modified Level D will be used to protect against the noted hazards
All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures: See pages 6-7

TASK-BY-TASK RISK ASSESSMENT (Complete One Sheet for Each Task)
TASK DESCRIPTION
Task 02: Mobilize to site and conduct soil and bulk asbestos sampling activities.
EQUIPMENT REQUIRED/USED (Be specific, e.g., hand tools, heavy equipment, instruments, PPE)
PPE: Level C Air Monitoring: PID, CGI/O ₂ , uR radiation meter Equipment: fire extinguisher, first aid kit, camera, logbook, plastic bags, sample containers, scoops, coolers, tap water sprayers
POTENTIAL HAZARDS/RISKS
CHEMICAL
<input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? Site is a former mill destroyed in a fire. Previous response actions by local and state agencies has confirmed widespread ACM contamination. Awareness of potential on-site chemicals and their properties, appropriate use of PPE and air monitoring, attention to surroundings, and use of the "Buddy System" will reduce the risk of exposure.
PHYSICAL
<input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input checked="" type="checkbox"/> M <input type="checkbox"/> L What Justifies Risk Level? Awareness of potential hazards, use of the "Buddy System", and careful observation of surroundings will minimize risks. Proper nutrition and hydration are important factors for maintaining physical strength and mental awareness during field work regardless of the season or site conditions. Hazards include slip/trip/fall from building debris and uneven terrain.
BIOLOGICAL
<input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? Biological hazards common to the New England area may be encountered. Risks will be minimized by awareness, avoidance of potential hazards, and use of appropriate work clothes/PPE.
RADIOLOGICAL
<input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? Site background does not indicate that radiation sources are present. However, the potential for radiation sources will be investigated, and radiation monitoring will be conducted. Proper monitoring and avoidance will minimize the risk of exposure.
LEVELS OF PROTECTION/JUSTIFICATION
Level C will be used for sampling in all areas where the potential for friable ACM exists.
All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures: See pages 6-7

PERSONNEL PROTECTION PLAN

Engineering Controls

Describe Engineering Controls used as part of Personnel Protection Plan:

Task(s): Task 01 - None.

Task 02 – Samples will be wetted during collection to minimize ACM fiber generation.

Administrative Controls

Describe Administrative controls used as part of Personnel Protection Plan: Appropriate Work Zone Delineation. All Field Personnel: 40-Hour OSHA Health and Safety (H&S) Training, 8-Hour OSHA H&S Refresher Training (As Needed), Medical Monitoring Clearance. FSO: 8-Hour FSO training, First Aid, Bloodborne Pathogens, And Adult Cardiopulmonary Resuscitation (CPR) Training, And Extensive Field Experience.

Personal Protective Equipment

List Initial PPE Level For Each Task:

Task 01: Modified Level D PPE - See Page 11 for Action Levels.

Task 02: Level C PPE - See Page 11 for Action Levels.

Description of Levels of Protection

Level D	Level D Modified	Level C	Level B
Task(s): <input checked="" type="checkbox"/> Head - Hard Hat (as appropriate) <input checked="" type="checkbox"/> Eye (Safety Glasses as appropriate) <input type="checkbox"/> Hearing - Ear Plugs <input checked="" type="checkbox"/> Appropriate Uniform <input type="checkbox"/> Hand - Gloves <input checked="" type="checkbox"/> Foot - Safety Boots <input type="checkbox"/> Other (specify)	Task(s): 01 <input checked="" type="checkbox"/> Head - Hard Hat (as appropriate) <input checked="" type="checkbox"/> Eye (Safety Glasses) <input type="checkbox"/> Hearing - Ear Plugs <input checked="" type="checkbox"/> Appropriate Uniform <input type="checkbox"/> Coverall (Tyvek) <input checked="" type="checkbox"/> Hand - Gloves (inner - surgical) <input type="checkbox"/> Hand - Gloves (middle) <input checked="" type="checkbox"/> Hand - Gloves (outer - surgical) <input checked="" type="checkbox"/> Foot - Safety Boots <input checked="" type="checkbox"/> Foot - Over boots <input type="checkbox"/> Other (specify)	Task(s): 02 <input checked="" type="checkbox"/> Head - Hard Hat <input type="checkbox"/> Face (Splash Shield) <input type="checkbox"/> Hearing - Ear Plugs <input checked="" type="checkbox"/> Appropriate Uniform <input checked="" type="checkbox"/> Coverall (Tyvek) <input checked="" type="checkbox"/> Hand - Gloves (inner - surgical) <input type="checkbox"/> Hand - Gloves (middle) <input checked="" type="checkbox"/> Hand - Gloves (outer - nitrile) <input checked="" type="checkbox"/> Foot - Safety Boots <input checked="" type="checkbox"/> Foot - Over boots <input checked="" type="checkbox"/> Respirator (Full Face APR) <input type="checkbox"/> Cartridge (OV/HEPA) <input type="checkbox"/> Other (specify)	Task(s): <input type="checkbox"/> Head - Hard Hat <input type="checkbox"/> Face (Splash Shield) <input type="checkbox"/> Hearing - Ear Plugs <input type="checkbox"/> Appropriate Uniform <input type="checkbox"/> Coverall (Saranex) <input type="checkbox"/> Hand - Gloves (inner - surgical) <input type="checkbox"/> Hand - Gloves (middle) <input type="checkbox"/> Hand - Gloves (outer - nitrile) <input type="checkbox"/> Foot - Safety Boots <input type="checkbox"/> Foot - Over boots <input type="checkbox"/> SCBA <input type="checkbox"/> Other (specify)

SITE OR PROJECT HAZARD MONITORING PROGRAM

Direct Reading Air Monitoring Instruments

Instrument Selection and Initial Check Record

Reporting Format: ☒ Field Logbook ☐ Field Data Sheets ☐ Air Monitoring Log ☐ Trip Report ☐ Other

Instrument	Task No.(s)	Instrument Number	Comment	Initials
<input checked="" type="checkbox"/> CGI/O ₂	01, 02			
<input type="checkbox"/> CGI/O ₂ /H ₂ S/CO				
<input checked="" type="checkbox"/> RAD	01, 02			
<input checked="" type="checkbox"/> Micro-R				
<input type="checkbox"/> GM				
<input type="checkbox"/> Other				
<input checked="" type="checkbox"/> PID	01, 02			
<input type="checkbox"/> FID				
<input type="checkbox"/> RAM, Mini-RAM, Other				
<input type="checkbox"/> Mercury Vapor Analyzer				
<input type="checkbox"/> Single Gas				
<input type="checkbox"/> H ₂ S				
<input type="checkbox"/> CL ₂				
<input type="checkbox"/> HCN				
<input type="checkbox"/> Other				
<input type="checkbox"/> Pump – Drager				
<input type="checkbox"/> Tubes/type:				
<input type="checkbox"/> Tubes/type:				
<input type="checkbox"/> Other				
<input type="checkbox"/> Chlorine Meter				
<input type="checkbox"/> Ammonia Meter				
<input type="checkbox"/> Personal/Area Sampling				
<input type="checkbox"/> Asbestos				
<input type="checkbox"/> Lead				
<input type="checkbox"/> Other				
<input type="checkbox"/> Other (List)				

SITE AIR MONITORING PROGRAM			
Action Levels			
These Action Levels, if not defined by regulation, are some percent (usually 50%) of the applicable PEL/REL/TLV. That number must also be adjusted to account for instrument response factors.			
	Tasks	Action Level Ambient Concentration	Action
<input checked="" type="checkbox"/> Explosive atmosphere	01, 02	<10% LEL 10 to 25% LEL >25% LEL	Work may continue. Consider toxicity potential. Work may continue. Increase monitoring frequency. Work must stop. Ventilate area before returning.
<input checked="" type="checkbox"/> Oxygen	01, 02	<19.5% O ₂ 19.5% to 25% O ₂ >25% O ₂	Leave Area. Re-enter only with self-contained breathing apparatus. Work may continue. Investigate changes from 21%. Work must stop. Ventilate area before returning.
<input checked="" type="checkbox"/> Radiation	01, 02	< 3 times background 3 Times Background to < 1 mR/hour > 1 mR/hour	Continue Work. Possible radiation source(s) present (normal background is 0.01-0.02 mR/hr). Continue investigation with caution. Perform thorough monitoring. Consult with a Health Physicist. Potential radiation hazard. Continue investigation only upon the advice of Health Physicist.
<input checked="" type="checkbox"/> Unknown Organic Gases/Vapors	01, 02	< 1 unit above background 1 to 5 units above background > 5 to 500 units above background > 500 units above background	Level D, continue air monitoring. Level C, continue air monitoring. Level B, continue air monitoring. Evacuate affected area.
<input type="checkbox"/> Specific Organics/Inorganics			

Note: Action levels listed above do not include confined space entry work.

AIR MONITORING/SAMPLING SUMMARY LOG								
Work Location Instrument Readings								
Location:	% LEL	% O ₂	PID (units)	FID (units)	Aerosol Monitor (mg/m ³)	Radiation Meter (uR/Hour)	Detector Tubes (PPM)	Other
During Site Reconnaissance	0	20.9	0	--	--	10-15	--	

CONTINGENCIES		
Emergency Contacts and Phone Numbers		
Agency	Contact	Phone Number
Local Medical Emergency Facility (LMF)	Harrington Memorial Hospital	(508) 765-9771
WESTON Medical Emergency Contact	Dr. Peter Greaney WorkCare, Anaheim, CA	Between 0730 and 1930 Eastern Time Zone: 800-455-6155, extension 2219 [Team Delta]; if a member of Team Delta cannot be reached, dial extension 2110 [Paula Sandroek]. After business hours, follow the prompts to reach a WorkCare representative.
WESTON Health and Safety	Herold Hannah	(610) 701-3024 (work) (267) 516-0274 (cell)
Fire Department	Webster, Massachusetts	911
Police Department	Webster, Massachusetts	911
Weston/START Site Leader	Eric Ackerman	Office: 978-552-2127 Cell: 978-621-1204
EPA Site Coordinator	Allen Jarrell	Office: 617-918-13144 Cell: 617-312-4717
OSHA Hotline		1-800-321-6742
Chem-Tel		1-800-255-3924
ATSDR		1-404- 639-0615
ATF (explosives information)		1-800-800-3855
Chemtrec		1-800-424-9300
Poison Control Center		1-800-222-1222
National Response Center		1-800-424-8802
START Health and Safety	Paul Callahan	1-978- 621-1203
Local Medical Emergency Facility(s)		
Name of Hospital: Harrington Memorial Hospital		Phone No.: (508) 765-9771
Address: 100 South Street, Southbridge, Massachusetts		
Name of Contact: Emergency Room		
Type of Service: <input type="checkbox"/> Physical trauma only <input type="checkbox"/> Chemical exposure only <input checked="" type="checkbox"/> Physical trauma and chemical exposure <input checked="" type="checkbox"/> Available 24 hours	Route to Hospital (written detail): Follow Pearl Street to Quinebaug Road and turn right (4.7 miles). At the Rotary, take the third exit onto Main Street (5.6 miles), and then take a slight left after 0.7 miles onto South Street and after 0.2 miles turn right and Harrington Hospital is on your left.	Travel time from site: approx. 25 minutes Distance to hospital: approx. 11 miles Name/No. of 24-hr Ambulance Service: Webster EMS/911

Figure 2 - Route to Hospital (Map)

CONTINGENCY

Response Plans

Medical – General

Provide First Aid as trained, assess and determine need for further medical assistance.

Transport or arrange for transport after decontamination.

First Aid Kit required: <input checked="" type="checkbox"/> Yes	Type - Standard field including bloodborne pathogen kit	Location - START vehicle	Special First Aid Procedures: Cyanides on site <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, contact LMF. Do they have antidote kit? <input type="checkbox"/> Yes <input type="checkbox"/> No
Eyewash required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Type - Standard Gravity-Fed	Location - START vehicle	Hydrogen Fluoride on site <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, need neutralizing ointment for First Aid kit. Contact LMF.
Spills: In the event of a spill or release, ensure safety, assess situation and perform containment and control measures as appropriate:	a. If small spill, clean up per MSDS; Notify Emergency Coordinator. b. If large spill, Sound Alarm; Notify Emergency Coordinator. c. Evacuate to pre-determined safe place. d. Account for all personnel. e. Determine if Team can respond safely.	Spill Response Equipment (Type) None	Location
Fire/Explosion: In the event of a fire or explosion, ensure personal safety, assess situation and perform containment and control measures as appropriate:	a. Sound Alarm and call assistance, Notify Emergency Coordinator b. Evacuate to predetermined safe place c. Account for personnel d. Use fire extinguisher, <u>only if safe and trained</u> e. Standby to inform Emergency responders of materials and conditions	Fire Extinguisher (Type): 10/20 lb ABC	Location - START vehicle

Security Problems: Assess safety of field team, contact local police at 911 if necessary.

DECONTAMINATION PLAN

Levels of Protection Required for Decontamination Personnel

The levels of protection required for personnel assisting with decontamination will be:

☐ Level B

☐ Level C

☒ Modified Level D

Modifications include:

PPE and Monitoring Equipment Decontamination

Decontamination procedure required for site personnel:

☒ Dry decon

☐ Wet decon (If Needed)

☐ Wash boots and gloves

☐ Remove outer boots

☐ Remove outer gloves

☐ Remove chemical coverall

☐ Remove respiratory protection

☐ Remove inner gloves

Sampling Equipment Decontamination

Sampling equipment will be decontaminated in accordance with the following procedure: N/A

☐ Wash with soap and water

☐ Rinse with tap water

☐ Rinse with isopropanol

☐ Rinse with DI water

☐ Air dry

Disposition of Investigation-Derived Wastes

Provide a description of waste disposition including identification of storage area, hauler, and final disposal site, if applicable:

PPE will be decontaminated on site as needed, double-bagged, and returned to the Andover, MA START office for disposal in accordance with the START Region I field-generated waste SOP. Decontamination fluids will be disposed of on site in accordance with the access agreement.

SITE PERSONNEL

Name: Eric Ackerman
Title: Site Leader
Task(s): 01, 02

☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

Name:
Title:
Task(s):

☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

Name:
Title:
Task(s):

☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

Name:
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☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

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☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

Name:
Title:
Task(s):

☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

TRAINING CURRENT: All personnel, including visitors, entering the exclusion or contamination reduction zones must have current certifications of completion of training in accordance with 29 CFR 1910.120.

FIT TEST CURRENT: All persons, including visitors, entering any area requiring the use or potential use of any negative pressure respirator must have had, as a minimum, a qualitative fit test, administered in accordance with OSHA 29 CFR 1910.134 or ANSI, within the last 12 months. If site conditions require the use of a full-face, negative-pressure, air-purifying respirator for protection from asbestos or lead, employees must have had a qualitative fit test, administered according to OSHA 29 CFR 1910.1001 or 1025/1926, within the last 6 months.

MEDICAL CURRENT - Medical Monitoring Requirements: All personnel, including visitors, entering the exclusion or contamination reduction zones must be certified as medically fit to work, and to wear a respirator (if appropriate), in accordance with 29 CFR 1910.120 and 29 CFR 1910.134.

The Site Field Safety Officer is responsible for verifying all certifications and fit tests.

SITE SPECIFIC HEALTH AND SAFETY PERSONNEL

The Field Safety Officer (FSO) for activities to be conducted at this site is: Eric Ackerman

The FSO has total responsibility for ensuring that the provisions of this Site HASP are adequate and implemented in the field.

Changing field conditions may require decisions to be made concerning adequate protection programs. Therefore, the personnel assigned as FSOs are experienced and meet the additional training requirements specified by OSHA in 29 CFR 1910.120

Qualifications:

☒ 40 Hour OSHA Training ☒ 8 Hour Refresher Training
☒ 8 Hour Site Safety Supervisor Training ☒ First Aid, Bloodborne pathogens, and Adult CPR Training
☒ Extensive field experience ☐ Non-rescue Confined Space Training

HEALTH AND SAFETY PLAN APPROVAL/SIGNOFF FORM

Site Name: Anglo Enterprises Company Site

Address: 35 Pearl Street, Webster, Massachusetts

I understand, agree to and will conform with the information set forth in this Health and Safety Plan (and attachments) and discussed in the Personnel Health and Safety briefing(s).

Name	Signature	Date
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Name	Signature	Date
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Allen Jarrell Allen K. Jarrell 12/1/15

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Eric D. Ackerman	Eric D. Ackerman	12/1/15
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Chris Dupree 12/1/15

33	44	55
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Ken Robinson	Kenneth Robinson	12/1/15
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[illegible]

DATE: 12/1/15 TOPICS COVERED: PPE Levels, Air Monitoring Action Levels, Chemical Hazards, Physical Hazards, Tasks To Be Conducted, Weather Hazards, Other Topics Including:

[illegible]

ATTACHMENT "A"

CHEMICAL CONTAMINANTS

DATA SHEETS

(Attach appropriate data sheets.)

ATTACHMENT "B"

SAFETY DATA SHEETS

(SDS)

ATTACHMENT "C"

SITE SPECIFIC HAZARD COMMUNICATION PROGRAM

Location Specific Hazard Communications Program/Checklist

In order to ensure an understanding of and compliance with the Hazard Communication Standard, WESTON will utilize this checklist/document (or similar document) in conjunction with the WESTON Written Hazard Communications Program as a means of meeting site or location specific requirements.

While responsibility for activities within this document references the WESTON Safety Officer (SO), it is the responsibility of all personnel to effect compliance. Responsibilities under various conditions can be found within the WESTON Written Hazard Communication Program.

To ensure that information about the dangers of all hazardous chemicals used by WESTON is known by all affected employees, the following hazardous information program has been established. All affected personnel will participate in the hazard communication program. This written program as well as WESTON's Corporate Hazard Communication Program will be available for review by any employee, employee representative, representative of OSHA, NIOSH or any affected employer/employee on a multi-employer site.

Site/Project name/address: Anglo Enterprises Company Site

Site/Project Manager: Eric Ackerman

Site/Project Safety Officer: Eric Ackerman

List of chemicals and SDSs complied, format: HASP: X Other: _____

Tailgate Safety Meeting Conducted by (name and date):

List of Hazardous Chemicals

A list of known hazardous chemicals used by WESTON personnel must be prepared and attached to this document. Further information on each chemical may be obtained by reviewing the appropriate SDS's. The list will be arranged to enable cross reference with the SDS file and the label on the container. The SO or location manager is responsible for ensuring the chemical listing remains up-to-date.

Container Labeling

The WESTON Safety Officer (SO) will verify that all containers received from the chemical manufacturer, importer or distributor for use on site will be clearly labeled.

The SO is responsible for assuring labels are placed where required and for comparing SDS's and other information with label information to ensure correctness.

Safety Data Sheets (SDS)

The SO is responsible for establishing and monitoring WESTON's SDS program for the location. The SO will make sure procedures are developed to obtain the necessary SDS's and will review incoming SDS's for new or significant health and safety information. He/she will see that any new information is passed on to the affected employees. If an SDS is not received at the time of initial shipment, the SO will call the manufacturer and have a SDS delivered for that product in accordance with the requirements of WESTON's Written Hazard Communication Program.

Copies of SDS's for all hazardous chemicals in use will be kept in the SDS folder at a location known to all site workers. SDS's will be readily available to all employees during each work shift. If an SDS is not available, immediately contact the WESTON SO or designated alternate. When revised SDS's are received the SO will immediately replace the old SDS's.

Employee Training and Information

The SO is responsible for the WESTON site-specific personnel training program. The SO will ensure that all program elements specified below are supplied to all affected employees.

At the time of initial assignment for employees to the work site or whenever a new hazard is introduced into the work area employees will attend a health and safety meeting or briefing that includes the information indicated below.

- Hazardous chemicals present at the worksite
- Physical and health risks of the hazardous chemicals

- The signs and symptoms of overexposure
- Procedures to follow if employees are overexposed to hazardous chemicals
- Location of the SDS file and written hazard communication program
- How to determine the presence or release of hazardous chemicals in the employees work area
- How to read labels and review SDS's to obtain hazard information
- Steps WESTON has taken to reduce or prevent exposure to hazardous chemicals
- How to reduce or prevent exposure to hazardous chemicals through use of controls procedures, work practices and personal protective equipment
- Hazardous, non-routine tasks to be performed (if any)
- Chemicals within unlabeled piping (if any)

Hazardous Non-Routine Tasks

When employees are required to perform hazardous non-routine tasks the affected employee(s) will be given information by the SO about the hazardous chemicals he or she may utilize during such activity. This information will include specific chemical hazards, protective and safety measures the employee can use and steps WESTON is using to reduce the hazards. These steps include, but are not limited to, ventilation, respirators, presence of another employee and emergency procedures.

Chemicals in Unlabeled Pipes

Work activities may be performed by employees in areas where chemicals are transferred through unlabeled pipes. Prior to starting work in these areas, the employee shall contact the SO at which time information as to; the chemical(s) in the pipes, potential hazards of the chemicals or the process involved, and safety precautions which should be taken will be determined and presented.

Multi-Employer Worksites

It is the responsibility of the SO to provide other employers with information about hazardous chemicals imported by WESTON to which their employees may be exposed, along with suggested safety precautions. It is also the responsibility of SO and the site manager to obtain information about hazardous chemicals used by other employers to which WESTON employees may be exposed. WESTON's chemical listing will be made available to other employers as requested. MSDS's will be available for viewing as necessary.

The location, format and/or procedures for accessing MSDS information must be relayed to affected employees.

